

Title (en)

DUAL-ACTIVATING COSTIMULATORY MOLECULE RECEPTOR AND USE THEREOF

Title (de)

DUALAKTIVIERENDER KOSTIMULIERENDER MOLEKÜLREZEPTOR UND VERWENDUNG DAVON

Title (fr)

RÉCEPTEUR MOLÉCULAIRE DE CO-STIMULATION À DOUBLE ACTIVATION ET UTILISATION ASSOCIÉE

Publication

EP 3733695 A1 20201104 (EN)

Application

EP 18894804 A 20181226

Priority

- CN 201711462081 A 20171228
- CN 2018123974 W 20181226

Abstract (en)

Provided are a dual-activating costimulatory molecule receptor and the use thereof. The dual-activating costimulatory molecule receptor comprises the following elements from the N-terminus to the C-terminus: a selectable signal peptide, a costimulatory signal molecule-activating single-chain antibody, an extracellular hinge area, a transmembrane region and an intracellular costimulatory signal molecule. The dual-activating costimulatory molecule receptor can produce a strong clustering effect when co-modifying T-cells with first-generation CAR-T comprising a first signal, can kill tumor cells, and at the same time, does not trigger a strong T-cell immunity or cause potentially serious toxic side effects.

IPC 8 full level

C07K 14/705 (2006.01); **A61K 35/17** (2015.01); **A61K 38/17** (2006.01); **A61P 35/00** (2006.01); **C07K 16/28** (2006.01); **C12N 5/0783** (2010.01); **C12N 5/10** (2006.01); **C12N 15/62** (2006.01); **C12N 15/63** (2006.01)

CPC (source: CN EP US)

A61K 35/17 (2013.01 - US); **A61K 39/4611** (2023.05 - CN EP); **A61K 39/4631** (2023.05 - CN EP); **A61K 39/464404** (2023.05 - CN EP); **A61K 39/464468** (2023.05 - CN EP); **A61K 39/46447** (2023.05 - CN EP); **A61K 48/005** (2013.01 - EP); **A61P 35/00** (2018.01 - EP US); **C07K 14/7051** (2013.01 - EP); **C07K 14/70517** (2013.01 - CN US); **C07K 14/70521** (2013.01 - CN US); **C07K 14/70578** (2013.01 - CN US); **C07K 16/2818** (2013.01 - CN EP); **C07K 16/2863** (2013.01 - EP); **C07K 16/2878** (2013.01 - CN EP); **C07K 16/3092** (2013.01 - EP); **C12N 5/0636** (2013.01 - CN EP); **A61K 38/00** (2013.01 - EP); **A61K 2239/28** (2023.05 - CN EP); **A61K 2239/59** (2023.05 - CN EP); **C07K 2317/622** (2013.01 - CN EP); **C07K 2317/75** (2013.01 - EP); **C07K 2319/00** (2013.01 - CN); **C07K 2319/02** (2013.01 - CN); **C07K 2319/03** (2013.01 - CN EP); **C07K 2319/33** (2013.01 - CN); **C07K 2319/74** (2013.01 - CN); **C12N 2510/00** (2013.01 - CN EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3733695 A1 20201104; **EP 3733695 A4 20211222**; CN 109970864 A 20190705; JP 2021509290 A 20210325; JP 7386177 B2 20231124; US 2021046113 A1 20210218; WO 2019129086 A1 20190704

DOCDB simple family (application)

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